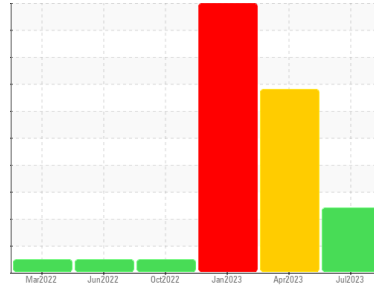




PROBLEM SUMMARY

Area
SULLUBE 32
 Machine Id
INGERSOLL RAND 6765 - TEXTRON AVAIATION (S/N F4694U92)
 Component
Compressor

Sample Rating Trend

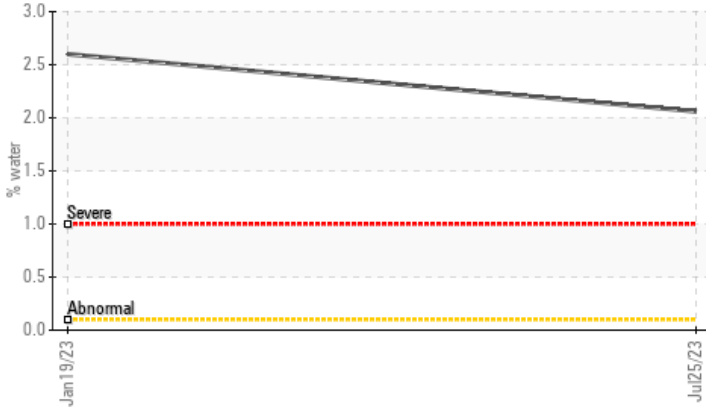


WATER



COMPONENT CONDITION SUMMARY

▲ Water



RECOMMENDATION

We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	SEVERE	SEVERE
Water	%	ASTM D6304	>0.1	▲ 2.06	---	● 2.60
ppm Water	ppm	ASTM D6304	>1000	▲ 20600	---	● 26000
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	▲ 0.2%	NEG	● 0.2%

Customer Id:UCAIRWIC
 Sample No.: UCH05929716
 Lab Number: 05929716
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

25 Apr 2023 Diag: Don Baldrige

WEAR



Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Bearing and/or bushing wear is indicated. Moderate concentration of visible dirt/debris present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



19 Jan 2023 Diag: Angela Borella

WEAR



Check seals and/or filters for points of contaminant entry. We advise that you follow the water drain-off procedure for this component. We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Copper and lead ppm levels are severe. Tin ppm levels are abnormal. Nickel ppm levels are marginal. There is a high concentration of water present in the oil. Excessive free water present. Moderate concentration of visible dirt/debris present in the oil. There is a moderate amount of visible silt present in the sample. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report



11 Oct 2022 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

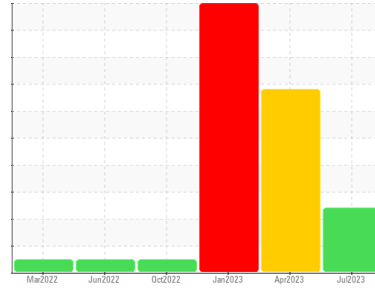
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
SULLUBE 32
 Machine Id
INGERSOLL RAND 6765 - TEXTRON AVAIATION (S/N F4694U92)
 Component
Compressor

DIAGNOSIS

▲ Recommendation

We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

There is a high concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		UCH05929716	UCH05865743	UCH05760816
Sample Date	Client Info		25 Jul 2023	25 Apr 2023	19 Jan 2023
Machine Age	hrs	Client Info	5322	4469	4104
Oil Age	hrs	Client Info	5322	4246	0
Oil Changed	Client Info		Not Chngd	Changed	Not Chngd
Sample Status			ATTENTION	SEVERE	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<1	<1	2
Chromium	ppm	ASTM D5185m >10	<1	0	<1
Nickel	ppm	ASTM D5185m	<1	4	▲ 14
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >25	0	<1	1
Lead	ppm	ASTM D5185m >25	2	▲ 31	● 100
Copper	ppm	ASTM D5185m >50	1	● 186	● 452
Tin	ppm	ASTM D5185m >15	<1	7	▲ 17
Vanadium	ppm	ASTM D5185m	<1	0	<1
Cadmium	ppm	ASTM D5185m	10	11	34

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<1	0	2
Barium	ppm	ASTM D5185m 745	641	774	587
Molybdenum	ppm	ASTM D5185m	0	0	<1
Manganese	ppm	ASTM D5185m	0	<1	0
Magnesium	ppm	ASTM D5185m	<1	4	2
Calcium	ppm	ASTM D5185m 1	4	7	6
Phosphorus	ppm	ASTM D5185m 3	4	9	29
Zinc	ppm	ASTM D5185m	1	57	92
Sulfur	ppm	ASTM D5185m	344	396	235

CONTAMINANTS

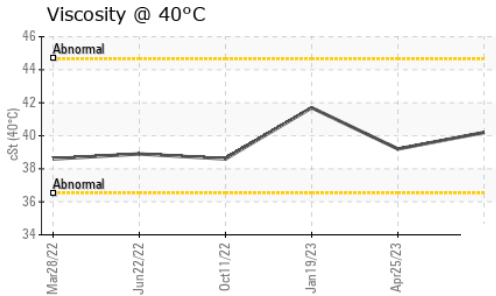
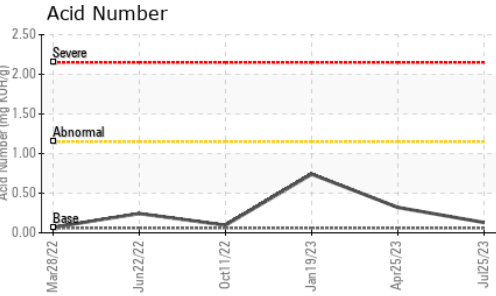
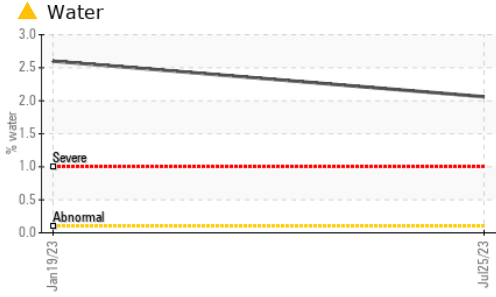
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	0	1	3
Sodium	ppm	ASTM D5185m	16	21	11
Potassium	ppm	ASTM D5185m >20	2	1	4
Water	%	ASTM D6304 >0.1	▲ 2.06	---	● 2.60
ppm Water	ppm	ASTM D6304 >1000	▲ 20600	---	● 26000

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.06	0.13	0.32	0.74



OIL ANALYSIS REPORT

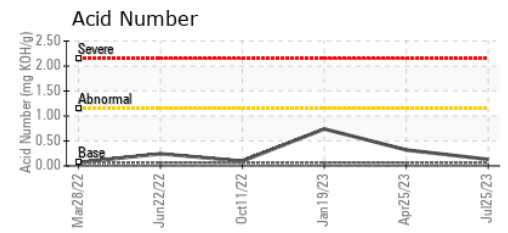
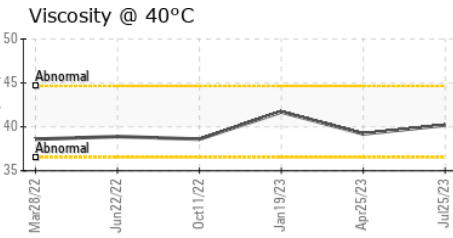
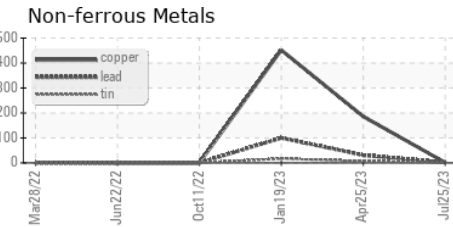
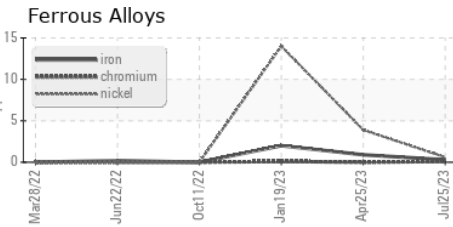


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	▲ MODER
Debris	scalar	*Visual	NONE	MODER	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	▲ 0.2%	NEG
Free Water	scalar	*Visual		NEG	● 1.0

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	40.2	39.2	41.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCH05929716 **Received** : 21 Aug 2023
Lab Number : 05929716 **Diagnosed** : 23 Aug 2023
Unique Number : 10609663 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF)

AIR CAPITAL EQUIPMENT INC
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 WICHITA, KS
 US 67211
 Contact: MIKAYLA STOUT
 mstout@aircapeq.com
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 F:

Certificate L2367
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)